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P-101-B

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Director for Communications

1 December 1955

Chief, Engineering Division, OC

Infrared Communications Equipment - Nomenclature.

1. To minimize confusion in the designation of Infrared Communications Equipment developed by the Agency, it is necessary to establish suitable nomenclature for items now under development or procurement.

2. The following designations apply:

NOMENCLATUREDESCRIPTION

IS-1

Long range portable base station transceiver, suitable for 24-hour operation

Range
Weight
Dimensions
Alignment

6-8 miles
30 pounds
18" x 15" x 7"
Gunsight telescope and nighttime viewer and audible tone
Tungsten (30 watts)
Mechanical
Lead Sulfide
Self-contained Yardney
Silvercells plus charger

DOCUMENT NO. 80NO CHANGE IN CLASS. ☐☐ DECLASSIFIEDCLASS. CHANGED TO: TS S 02010

NEXT REVIEW DATE: _____

AUTH: HR 70-2

DATE: 21080 REVIEWER: 010956

Source
Modulation
Detector
Power

IS-1A

Modified IS-1. This unit is identical to the IS-1, except for removal of nighttime viewer and modified tripod for briefcase dimensions.

IS-2

Agent short range equipment, suitable for nighttime use only. Equipment consists of separate transmitter and receiver.

IR-2 (Receiver)
IT-2 (Transmitter)

Range
Weight

1/2 - 3/4 mile
2 1/2 pounds

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Dimensions

Flash light, 11" long;
Case, 2" diameter; Case
head, 3" diameter
(2 units)

Alignment

No provision

Source

Tungsten

Modulation

Electrical

Power

Dry Cells

IS-3

Medium Range Infrared Transceiver
for nighttime operation only.

Range

2 1/2 - 3 miles

Weight

7 1/2 pounds plus

NiCd Batteries

Dimensions

13" x 8" x 4" (Battery

13" x 5" x 4 1/2")

Alignment

Audible tone

Source

Cesium Vapor Lamp

Modulation

Electrical

Detector

Thallous Sulfide

Power

NiCd Rechargeable

Batteries

IS-4

Briefcase Infrared Transceiver capable
of 24-hour operation.IO-4 Optical Unit
IP-4 Amplifier and
Power Supply
Unit

Range

3/4 miles between units,
3 miles to Base Station
Unit

Weight

17 Pounds

Dimensions

Optical Unit: 7" x
4 1/2" x 3 1/4"

Amplifier and Power

Supply: 9 3/4" x

10 3/8" x 3 1/2"

Source

Tungsten (10 watts)

Modulation

Mechanical

Detector

Lead Sulfide

Alignment

Audible tone and
gunsight telescope3. The Chief, Applied Physical Division, TSS, concurs with
the above.

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Concurred:

APD/TSS

OC-E/R&D-EP/CEM:mmb (1 December 1955)

CC: R&D Subject File

APD/TSS ←

OC-O&T

OC-E/MSB

Chrono

Dev-ep

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